



ENVIRONMENTAL CONSULTANTS

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**Crawford Station MGP Site  
Chicago, Illinois**

**Weekly Field Progress Report**

Report Date: May 31, 2012

Prepared By: Natural Resource Technology, Inc. (NRT)  
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Timothy B. Norris, PG  
John M. Nardozzi, PE

Submitted To: Integrys Business Support, LLC (IBS)  
Naren M. Prasad, PE

Activity Period: May 20, 2012 through May 26, 2012

The following summarizes the environmental field activities performed by NRT on behalf of IBS at the former Crawford Station MGP site Time Critical Removal Action (AOC V-W-11-C-981):

<i><b>Task</b></i>	<i><b>Environmental Activities</b></i>
General Description of Work Performed:	<p>The following activities were conducted:</p> <ul style="list-style-type: none"><li>• Tecnica excavated the northern portions of Area A and Area D down to the design depth of 14' and completed excavations between the sheet pile wall and anchor wall in Area I, L, M, and N to the design depth of 16'.</li><li>• Tecnica excavated material to be amended Area D and stockpiled the material within the Amendment Area. Approximately 600 cubic yards of material was amended by Tecnica and hauled to Laraway Road RDF for disposal.</li><li>• Marking sand was delivered, graded, and compacted over the exposed crown of the large City of Chicago sewer.</li><li>• On May 25, 2012, backfilling in Areas F and FA commenced.</li><li>• BMCD and NRT noted minor leaks in the sheet pile wall in the vicinity of Area I and L. Thatcher was called out on May 25, 2012 to repair the leaking areas.</li><li>• Rusmar foam and woodchips were used in active excavation and on stockpile in order to mitigate odors as needed.</li></ul>

General Description of Work Performed: (continued)	<ul style="list-style-type: none"> <li>Excavated soils were loaded and transported to Waste Management's Laraway Road RDF landfill for disposal. A total of 11,725 tons of material was disposed of at the landfill bringing the overall project total to 118,418 tons.</li> <li>Utilized GPS to locate pertinent items and features.</li> <li>NRT conducted air monitoring activities for PM<sub>10</sub> through the use of DustTraks, 12-hour time-weighted samples for BTEX and Naphthalene through the use of SUMMAs, and real time VOC concentrations using PIDs. Additionally, no odor/dust issues were noted at the perimeter of the site</li> </ul>
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<b>Task</b>	<b>Environmental Activities</b>
Sampling Activities Performed:	<p>NRT conducted the following sampling activities:</p> <ul style="list-style-type: none"> <li>DustTraks collected particulate data each day and data has been downloaded for analysis.</li> <li>Three SUMMA canisters were deployed on May 24, 2012 and sent to TestAmerica Laboratory for BTEX and naphthalene analysis.</li> <li>Twelve post-excavation base samples (EB-57 through EB-68) were collected in Area I, L, M, N, D, A, and AA. Additionally, two post-excavation wall samples (EW-23 and EW-24) were collected in Areas AA and N. These samples will be analyzed for constituents listed in the RAWP for post-excavation.</li> <li>Seven samples were collected from post-amendment stockpiles to verify compliance with landfill disposal criteria. The samples were analyzed for Benzene.</li> <li>Samples from the wastewater system (two from after the carbon filters and one from the influent) were collected to determine whether carbon filters were still effective. Samples were delivered to TestAmerica Laboratory for analysis.</li> </ul>
NRT Field Personnel:	Ronald J. Horan, PG and Tim Norris, PG.
Equipment Deployed:	SUMMA Canisters DustTraks PIDs Multi-gas meter
Field Photos:	See attached sheets.



Representatives from Peoples Gas, including sub-contractors, remained on-site through the week to continue their quality assurance procedures on the 24 inch diameter high pressure gas line running through the site. In order to continue west with their excavation, a section of the eastern fence was removed just south of the RAA's site entrance/exit gate. This section of fence will be restored to its prior condition once the quality assurance procedures have been completed.

Water is being pumped from the open excavations as needed. Water is sent through the Water Treatment System and discharged into the City of Chicago sewer for discharge into the MWRD system.

Mr. Shakeel Khan, from the City of Chicago Water Department, was on-site on May 21, 2012 to inspect the large City of Chicago sewer after it was backfilled by Tecnica.

Mr. Jim Hahnenberg (USEPA) and Mr. Naren Prasad (IBS) were on-site on May 24, 2012 to receive a tour and update of on-site activities.

Work planned for the coming week, May 27, 2012 through June 2, 2012, is as follows:

- Take floor and wall samples as they become available in Area A.
- Sample amended soil stockpiles to be analyzed for Benzene for disposal purposes as needed.
- Provide environmental oversight for the quality assurance work being performed by Peoples Gas and their sub-contractors.
- Conduct Full Scale Air monitoring consisting of one 12-hour SUMMA can sampling event per week. The days of the 12-hour sampling will be determined to coincide with excavation activities.
- Receive and review post-excavation confirmation, post amendment, and air sampling from TestAmerica.

A weekly field progress report will continued to be issued throughout the duration of field activities for this Time Critical Removal Action. A written report summarizing the results and findings of the Removal Action will be provided following completion of all field activities.

A summary of the construction activities as detailed by the Construction Manager have been included with this report as Attachment 1.

Please feel free to contact us if you have any questions.

Sincerely,

NATURAL RESOURCE TECHNOLOGY, INC.

A handwritten signature in black ink, appearing to read 'Tim Norris'.

Timothy B. Norris, PG  
Geologist

Attachment 1: Burns and McDonnell Construction Management Report



### Field Photos:



Photo 1: Truck loading activity near Area M/N.

Direction: Facing east

Photo Date: 5/22/2012

Photo Taken By: RJH



Photo 2: A general view of the western site boundary.

Direction: Facing north.

Photo Date: 5/23/2012

Photo Taken By: RJH



Photo 3: Sand compaction over the crown of 18' x 14' sewer.

Direction: Facing north.

Photo Date: 5/24/2012

Photo Taken By: RJH



**Field Photos (continued):**



Photo 4: Material loading at the truck scale.

Direction: Facing south.

Photo Date: 5/24/2012

Photo Taken By: RJH



Photo 5: Backfilling Areas F and FA.

Direction: Facing south.

Photo Date: 5/25/2012

Photo Taken By: RJH



Photo 6: Thatcher repairing leaking sheet pile wall.

Direction: Facing southwest.

Photo Date: 5/25/2012

Photo Taken By: RJH



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Downers Grove, Illinois 60515

Week of: 5/20/12 to 5/26/12

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**Subject: Site Remediation – Construction Management  
Peoples Gas – Former Crawford Station**

**Burns & McDonnell Personnel Onsite**

Site Construction Manager

- Bal Berena

Site Remediation Supervisor

- Bernard Gill

Construction Manager

- Dave D'Armond

Others

- Mike Swieca

**Subcontractors Onsite**

- Tecnica Environmental Services
- Thatcher Foundations

Others

- Natural Resource Technology (NRT)
- Waste Management (Dave Weber, Steve Jiskra)  
Ed Froehlich (MT)

**Integrays Peoples Gas Personnel Onsite**

- Steve Griffin, Chris Szela, Naren Prasad,  
Mike Anderson, Tony Gleiznis, John  
MacLagno, Freddie Ramirez, Adam  
Wandycz (PGL)

**Miscellaneous Visitors**

- James Hahnenberg (USEPA)
- Chuck Sabel (Michels)
- Sergio Munoz (TES)
- Shakeel Khan (City of Chicago  
Department of Water)

**Site Activities**

**BURNS & MCDONNELL**

- Managed site activities with Tecnica Environmental Services, and Thatcher Foundations;
- Escorted USEPA, PGL and City of Chicago Department of Water personnel during site visit;
- Issued trucking tracking forms for all excavated soils from Areas D, F, FA, L, I, M, and N;
- Tracked 619 loads (11,725.07 tons) for Direct soils disposal and 37 loads (688.40 tons) for bio soil disposal at Laraway Landfill;
- Received 10 loads of CA-7 (224.38 tons) for road maintenance;
- Received 179 loads of CA-6 (4,026.89 tons) and 42 loads of FA-2 (935.52 tons) for backfill of both sides of sewer and areas F and FA;
- Received 6 loads (143.94 tons) of bed ash used for amendment to lower benzene concentration;
- Pumped and discharged 98,191 gallons of treated excavation water to MWRD;
- Escorted Shakeel Khan during a routine visit of the remediation progress on the large sewer;

- Participated in daily subcontractor pre-task analysis safety meetings on site;
- Conducted periodic health and safety air monitoring in excavation area – no elevated readings;
- Held the weekly site construction meeting with Supervisors of Subcontractors, Waste Management; and
- Monitored site conditions for traffic, dust, odor and overall safety.

#### **TECNICA ENVIRONMENTAL SERVICES**

- Excavated and loaded out soils from Areas A, D, I, F, L, M, N, and FA;
- Controlled odors through foaming and wood chips use;
- Actively suppressed dust on site through watering and haul road maintenance;
- Operated and maintained truck scale;
- Continuously monitored air quality in south half ERS during excavation;
- Assisted BMcD in water treatment system operation and maintenance;
- Continuously monitored site fencing, silt fence, and erosion control materials;
- Assisted NRT collecting samples in Areas F, FA, L, M, N and D;
- Excavated and backfilled both sides of Chicago Sanitary Sewer simultaneously as required by OUC;
- Performed routine maintenance on decon pad, tracking pad and haul road;
- Pump water from Areas Q, N, D, and R; and
- Assisted Thatcher during repair of south half Earth Retention System (ERS).

#### **THATCHER FOUNDATIONS**

- Repaired minor leaking at interlocking joint in main sheeting wall with ADEKA sealant in south half Earth Retention System (ERS).

#### **Changes to Scope of Work**

- Continued support for PGL pipe integrity excavation; and
- Continue excavating to the north of original Area A.

#### **Open/Outstanding Items**

- Investigating the trucker incident of May 17<sup>th</sup> to achieve final resolution and procedural changes.

#### **Anticipated Activities for the Week of May 27, 2012**

- Continue amending soil with bed ash to lower benzene concentration.
- Finish backfilling north half of sewer, and Areas A, C, D, and E;
- Excavate and load out in Areas N, M, L, I, S, TA and A;
- Start backfilling south half ERS; and
- Pump water from areas I, and south of R.



**Crawford Station Site:**

**Remediation**

Date: May 21, 2012

Description: View to northwest of west sheeting wall braced section of Area I being excavated to design depth 16 feet below ground surface (bgs).



**Crawford Station Site:**

**Remediation**

Date: May 22, 2012

Description: Tecnica excavated south half of Earth Retention System (ERS) area to design depth, looking northwest.





**Crawford Station Site:**

**Remediation**

Date: May 24, 2012

Description: Tecnica backfilled over the top of the sewer with a foot of FA-2 sand, looking northwest.



**Crawford Station Site:**

**Remediation**

Date: May 25, 2012

Description: Tecnica finished excavating south half of the ERS, looking west from area N along the south sheeting wall.